

CLAIMS

1. An information recorder, characterized
by:

5 recording means for recording data
accompanying user data in an area disposed outside a
user data area to record the user data of a recording
area of an information recording medium.

10 2. The information recorder as claimed in
claim 1, characterized in that said recording means
includes means for recording a same attribute as an
attribute of the user data area as an attribute of
the area disposed outside the user data area.

15 3. An information recorder, characterized
by:

 content data recording means for recording
content data in an information recording medium;

20 index information generating means for
generating, for the content data, index information
for referring to contents of the content data; and

 index information recording means for
recording the index information generated by said
25 index information generating means in an area

disposed outside a user data area to record user data of a recording area of the information recording medium.

5 4. The information recorder as claimed in claim 3, characterized in that said index information recording means records the index information generated by said index information generating means in the area disposed outside the user data area to
10 record the user data of the recording area of the information recording medium at a time after said content data recording means completes the recording of the content data in the information recording medium.

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 5. The information recorder as claimed in claim 3, characterized in that said index information recording means successively records the index information generated by said index information
20 generating means in the area disposed outside the user data area to record the user data of the recording area of the information recording medium during the recording of the content data in the information recording medium by said content data
25 recording means.

6. An information recording method,
characterized by:

recording data accompanying user data in an
area disposed outside a user data area to record the
5 user data of a recording area of an information
recording medium.

7. The information recording method as
claimed in claim 6, characterized by recording a same
10 attribute as an attribute of the user data area as an
attribute of the area disposed outside the user data
area.

8. An information recording method,
15 characterized by:

a content data recording step of recording
content data in an information recording medium;

an index information generating step of
generating, for the content data, index information
20 for referring to contents of the content data; and

an index information recording step of
recording the index information generated by said
index information generating step in an area disposed
outside a user data area to record user data of a
25 recording area of the information recording medium.

9. The information recording method as claimed in claim 8, characterized in that said index information recording step records the index information generated by said index information
5 generating step in the area disposed outside the user data area to record the user data of the recording area of the information recording medium at a time after said content data recording step completes the recording of the content data in the information
10 recording medium.

10. The information recording method as claimed in claim 8, characterized in that said index information recording step successively records the
15 index information generated by said index information generating step in the area disposed outside the user data area to record the user data of the recording area of the information recording medium during the recording of the content data in the information
20 recording medium by said content data recording step.

11. A recording medium in which is recorded a program for causing a computer to execute a process of recording data accompanying user data in an area
25 disposed outside a user data area to record the user

data of a recording area of an information recording medium.

12. The recording medium in which is
5 recorded the program as set forth in claim 11 for causing the computer to execute a process of recording a same attribute as an attribute of the user data area as an attribute of the area disposed outside the user data area.

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13. A recording medium in which is recorded a program for causing a computer to execute:
a content data recording process of recording content data in an information recording
15 medium;

an index information generating process of generating, for the content data, index information for referring to contents of the content data; and
an index information recording process of
20 recording the index information generated by said index information generating process in an area disposed outside a user data area to record user data of a recording area of the information recording medium.

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14. The recording medium in which is
recorded the program as set forth in claim 13,
wherein said index information recording process
records the index information generated by said index
5 information generating process in the area disposed
outside the user data area to record the user data of
the recording area of the information recording
medium at a time after said content data recording
process completes the recording of the content data
10 in the information recording medium.

15. The recording medium in which is
recorded the program as set forth in claim 13,
wherein said index information recording process
15 successively records the index information generated
by said index information generating process in the
area disposed outside the user data area to record
the user data of the recording area of the
information recording medium during the recording of
20 the content data in the information recording medium
by said content data recording process.